RE: ASTM E-648 Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source

To Whom It May Concern:

Our Standard Vinyl Compound (used for Vinyl Tread & Accessories) was tested for Critical Radiant Flux on May 11, 1992.

The test, also known as the Flooring Radiant Panel, is identical to the Federal Test Method standard Number 372 and the National Fire Protection Association Test Method Number 253. It measures the critical radiant flux at flame-out of horizontally mounted complete flooring systems exposed to a flaming ignition source in a graded radiant heat energy environment intended to simulate the actual conditions that have been observed and defined in full-scale experiments.

The Flooring Radiant Panel test measures the level of incident radiant heat energy on the floor covering system at the most distant flame-out point, and is expressed as Critical Radiant Flux in watts per square centimeter. It provided a basis for estimating one aspect of flame-spread behavior for floor covering systems installed in corridors or exit ways of buildings.

The test results, calculated in accordance with the prescribed methods, are as follows:

SPECIMEN NUMBER	1	2	3
Distance Maximum Burn (cm)	26.3	25.9	23.3
Time to Flame-Out (minutes)	10.4	11.2	10.6
Critical Radiant Flux	.77	.78	.83

AVERAGE CRITICAL RADIANT FLUX = .79 watts/cm2

Material rated Class I.

Sincerely,

Donald P. Miller President/CEO

ROPPE CORPORTION

To Whom It May Concern:

Our Stair Nosing Material was tested for Flame Spread Classification and Smoke and Fuel Contribution on November 3, 1978. United States Testing Company, Inc., Hoboken, NJ, performed the tests.

The samples submitted were tested for flammability in accordance with the procedures outlined in ASTM E84-77A, Standard Method of Test for Surface Burning Characteristics of Building Materials. The test results cover two (2) parameters: flame spread classification and smoke developed values.

The test results, calculated in accordance with the prescribed methods of flame spread classification, fuel contribution, and smoke density are as follows:

Flame Spread Value	160
Smoke Developed Value	565

Sincerely,

ROPPE CORPORTION

Donald P. Miller President/CEO